

ABSTRACT OF THE DISCLOSURE

A high-melting superalloy made of iridium or rhodium or both thereof as a base and containing at least nickel together with at least one a metal selected from the metal group consisting of titanium, zirconium, hafnium, vanadium, niobium, and tantalum, wherein at least both phases of an fcc phase and an LI_2 phase are formed in the texture, and an amount of the LI_2 phase from 20 to 80% by volume.